(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 28 October 2004 (28.10.2004)

PCT

(10) International Publication Number WO 2004/092417 A2

(51) International Patent Classification7:

C12Q 1/68

(21) International Application Number:

PCT/US2004/010649

(22) International Filing Date: 7 April 2004 (07.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/461,019

7 April 2003 (07.04.2003) US 5 March 2004 (05.03.2004) US

60/550,467 5 March 2004 (05.03.2004)
(71) Applicant (for all designated States except US), EN

- (71) Applicant (for all designated States except US): EMORY UNIVERSITY [US/US]; 1784 North Decatur Road, Atlanta, GA 30322 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): HEMBY, Scott, Edwards [US/US]; 450 Fourth Fairway Drive, Roswell, GA 30076 (US).
- (74) Agents: COULTER, Kathryn, L. et al.; Alston & Bird LLP, Bank of America Plaza, Suite 4000, 101 South Tryon Street, Suite 4000, Charlotte, NC 28280-4000 (US).

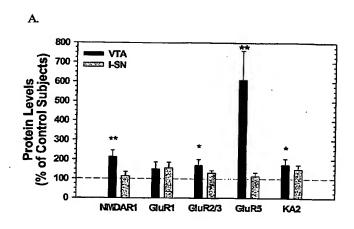
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

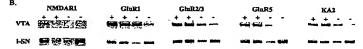
Published:

 without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: MOLECULAR CORRELATES OF COCAINE ADDICTION AND METHODS FOR THEIR USE





(57) Abstract: The present invention provides compositions and methods useful in the diagnosis and treatment of addictive disorders including cocaine addiction. Target genes and their expression products are identified based on their differential expression in subjects affected by addictive disorders in comparison with control subjects. In another aspect, the invention also provides methods for evaluating candidate drugs to predict their therapeutic efficacy. The invention also provides methods for predicting whether a compound will be addictive. Compositions of the invention include arrays, computer-readable mediums, and kits for use in the methods of the invention.

